

## Pieter Blue

### Research Interests:

Partial differential equations; nonlinear, hyperbolic, and geometric PDE; general relativity; mathematical physics.

### Education:

Ph.D.	Rutgers University	2004
B.Sc.	University of British Columbia	1999

### Positions:

Lecturer	8/08 - present	University of Edinburgh
Junior Scientist	8/07 - 7/08	Geometric Analysis and Gravitation group, Albert Einstein Institute
Postdoctoral Fellow	8/06 - 8/07	University of Toronto
NSERC Postdoctoral Fellow	8/04 - 8/06	University of Toronto
Graduate Assistant	9/03 - 8/04	Rutgers University
Summer Session Instructor	6/03 - 7/03	Rutgers University
Teaching Assistant	9/01 - 6/03	Rutgers University
NSF VIGRE trainee	9/99 - 6/01	Rutgers University
Undergrad. Teaching Assistant	9/97 - 4/99	University of British Columbia

### Honours and Awards:

09/2008-12/2008	Visitor; Geometry, Analysis, and General Relativity program; Mittag-Leffler Institute
2004-2006	NSERC Postdoctoral fellow

### Lecture series:

2011 Current progress on stability of black holes (10 lectures), Beijing International Centre for Mathematical Research, Beijing Summer Program in Mathematical Relativity

### Talks:

2011 Erwin Schrödinger Institute, Dynamics of General Relativity  
2011 Beijing International Centre for Mathematical Research, Beijing Summer Program in Mathematical Relativity  
2011 Johns Hopkins University, JAMI

- 2011 Institut de Mathématiques de Bourgogne, Resonances and Scattering in General Relativity Workshop
- 2011 Université Pierre et Marie Curie, Seminar on Mathematical Relativity
- 2010 Princeton University, Analysis seminar
- 2010 Philadelphia, SIAM conference on nonlinear waves and coherent structures
- 2010 Banff (BIRS), Geometric analysis and general relativity
- 2010 Edinburgh, Center for Analysis and nonlinear PDEs, mid-project symposium
- 2010 Granada, PDEs, relativity, and nonlinear waves
- 2010 CIRM, Joint geometric analysis seminar
- 2009 University of Glasgow, Analysis seminar
- 2009 Mathematisches Forschungsinstitut Oberwolfach, Mathematical aspects of general relativity
- 2009 MSRI, Hot topics: black holes in relativity
- 2009 University of Oxford, Relativity seminar
- 2009 University of Edinburgh, Analysis seminar
- 2008 University of Cambridge, Geometric Analysis and Partial Differential Equations seminar
- 2008 Warwick University, LMS Network in Harmonic Analysis and PDE workshop
- 2008 Mittag-Leffler institute, Geometry, Analysis, and General Relativity program
- 2008 Mathematical Institute of Bordeaux (IMB), Hyperbolic differential equations in general relativity
- 2008 Université de Lille I, Open Classical and Quantum Dynamical Systems III conference
- 2007 Albert Einstein Institute, Fachbeirat
- 2007 Albert Einstein Institute, Wave equation seminar (four talks)
- 2007 Albert Einstein Institute, Geometric Analysis and Gravitation Seminar
- 2007 Twelfth Canadian Conference on General Relativity and Relativistic Astrophysics,
- 2007 University of Michigan, Differential Equations Seminar
- 2006 Canadian Mathematical Society, Winter 2006 Meeting
- 2006 University of San Diego, Analysis seminar
- 2005 Isaac Newton Institute, Cambridge University, Global Problems in Mathematical Relativity
- 2005 Anogia Academic Village, Nonlinear wave phenomena
- 2005 New Mexico State University, Eighth New Mexico Analysis Seminar
- 2005 McMaster University, Young Mathematicians' Conference in PDE and Dynamical Systems
- 2004 University of Toronto, Applied Math/PDE/Analysis Seminar
- 2003 Fields Institute Seminar., Thematic Program on Partial Differential Equations
- 2003 Rutgers University, Graduate Student Seminar
- 2002 Rutgers University, Functional Analysis Club -series of 4 lectures
- 2000 Rutgers University, Graduate Student Seminar

**Service:**

9/2011	EPSRC, mathematics prioritisation panel
3/2010-present	Centre for analysis and nonlinear PDE minisymposium organiser
1/2010-present	Scottish mathematical sciences training centre, management committee: student liaison officer
1/2010-present:	Curriculum review committee member
5/2010-9/10	Mathematical Relativity workshop local organiser
8/2010:	Interview committee member
9/2009-8/2010	me3/me4 course organiser
8/2009-8/2010	Colloquium organiser, University of Edinburgh
10/2009	Internal PhD examiner for Evgeni Ovcharov, University of Edinburgh
9/2007-9/2008	Co-organiser, Wave equation seminar, Albert Einstein Institute
9/2005-9/2007	Co-organiser, Applied Math/ PDE/ analysis seminar, University of Toronto
2000-2004	Graduate student mentor, Research Experience for Undergraduate program, Rutgers University

**Classes taught:**

9/2011-12/2011	Pure and Applied Analysis (semester 1: pure analysis), University of Edinburgh
1/2011-5/2011	Analysis of Nonlinear Waves, University of Edinburgh
9/2010-05/2011	Mathematical Communication and Computation, University of Edinburgh
1/2009-5/2009	Mathematics for Elec/Mech Eng 4, University of Edinburgh.
9/2009-12/2009	Applicable mathematics for physical sciences students 3, University of Edinburgh.
1/2009-5/2009	Mathematics for Elec/Mech Eng 4, University of Edinburgh.
1/2007-5/2007	General Relativity, University of Toronto.
9/2006-12/2006	Differential equations and linear algebra for engineers, University of Toronto.
9/2005-5/2006	Vector Calculus, University of Toronto.
9/2004-5/2005	Calculus!, University of Toronto.
6/2003-7/2003	Calculus II, Rutgers University.

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